

M.P.Ed. Examination, 2016
Semester – I
Physical Education
Course – MPEC-102 (Elective)
(Sports Technology)

Time: 3 Hours

Full Marks: 70

Questions are value as indicated in the margin.
Answer one question from each unit

UNIT-I

1. What is Sports Technology? Write down the advantages and application of sports technology in the field of physical education and sports. 2+6+6=14

OR

What do you mean by instrumentation technology? Explain the three types of instrumentation technology used in sports. 4+10=14

UNIT-II

2. What does Nano glue mean? Write down the benefits of Nano Glue? What is Nano Turf? Write a short note on Nano molding Technology. 3+4+2+5=14

OR

What is foam? Write down the different types of foams and its application in sports field. 2+6+6=14

UNIT-III

3. Write down the types of surfaces used in modern sports field. Explain the characteristics of Sports Surfaces. Write a short note on artificial sports Surfaces. 2+4+8=14

OR

Write down the advantages of artificial turf for sports. Explain the detail about Shock absorption (Shock pad) 6+8=14

UNIT-IV

4. Discuss in detail about Sportswear and eco-design. Explain the term "Barefoot shoes". What do you mean by Aerodynamic properties of sports apparel? Explain. 5+4+5=14

OR

Write a short note on construction and manufacture of cricket balls. What are the performance criteria of cricket balls? 8+6=14

UNIT-V

5. Write down the mechanism and advantages of a cricket bowling machine. 14

OR

Write down about the Hawk eye technology and its mechanism during live coverage of a cricket match? 14
